Department of Environmental Protection

Weather Station Symbols

Cloud Coverage

- No Clouds
- 1/10
- 1/4
- 1/2
- 3/4
- 9/10
- Completely Overcast
- Sky Obscured

Wind Speed

- Calm
- < 5 knots
- 5 knots
- 10 knots
- 20 knots
- 25 knots
- 50 knots

Cloud Types

High Elevation

- Scattered Cirrus
- Dense Cirrus
- Cirrostratus
- Heavy Cirrostratus
- Cirrus & Cirrostratus

Middle Elevation

- Thin Altostratus
- Thick Altostratus
- Thin Altocumulus
- Heavy Altocumulus

Low Elevation

- Stratocumulus
- Fair Weather Cumulus
- Developing Cumulus
- Cumulonimbus
- Cirrocumulus
- Nimbostratus
- Stratus
- Fractostratus

Weather Conditions

INTERMITTENT	Light	Moderate	Heavy
Rain	•	:	⁝
Snow	*	**	***
Drizzle	,	;;	;;;

STEADY	Light	Moderate	Heavy
Rain	••	•••	••••
Snow	**	***	****
Drizzle	,,	,,,	,,,,

THUNDERSTORMS	Mild	Moderate	Severe
Rain	•	•	•
Snow	*	*	*
Hail	△	△	△

- Hail
- Snow Grains
- Tornado
- Ice Crystals
- Drifting Snow

Freezing Drizzle: Light, Heavy

Freezing Rain: Light, Heavy

Wind Direction

N, NE, E, SE, S, SW, W, NW

Wind comes FROM the direction of the arrow.

Air Pressure

- H High
- L Low

Fronts

- Warm
- Cold
- Stationary
- Occluded
- Warm (Aloft)
- Cold (Aloft)

MISC. SKY COVER

- Haze
- Smoke
- Dust/Sand
- Fog in Patches
- Light Fog
- Heavy Fog

SHOWERS

- Slight Rain
- Moderate/Heavy Rain
- Violent Rain
- Sleet/Hail
- Slight Snow
- Moderate/Heavy Snow

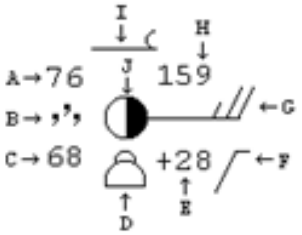
Barometric Tendency

Increase in Air Pressure over Last 3 Hours

Decrease in Air Pressure over last 3 Hours

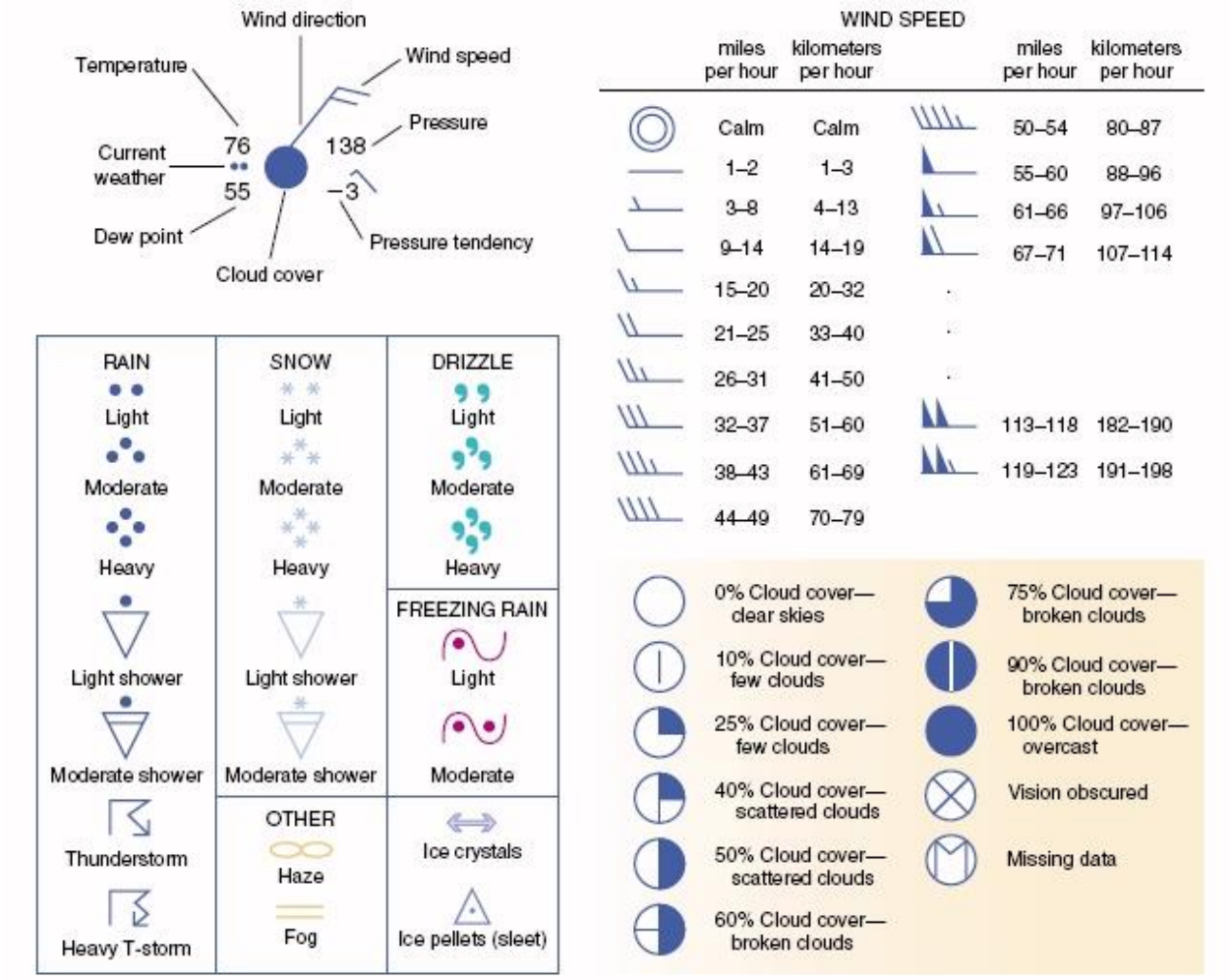
Rising, then Falling | Rising, then Steady | Rising Steadily | Falling, then Rising | Steady | Falling, then Rising | Falling, then Steady | Falling Steadily | Rising, then Falling

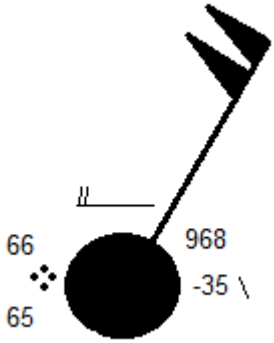
Weather Station Model Demo



A - Temperature
B - Present Weather
C - Dew Point
D - Low Cloud Type
E - Pressure Change
F - Pressure Tendency
G - Wind Speed & Direction
H - Barometric Pressure
I - High Cloud Type
J - Cloud Coverage

MAgelf 1995


Wind direction
Temperature
Wind speed
Pressure
Current weather
76
138
55
−3
Dew point
Pressure tendency
Cloud cover
WIND SPEED
miles per hour
kilometers per hour
Calm
Calm
1–2
1–3
3–8
4–13
9–14
14–19
15–20
20–32
21–25
33–40
26–31
41–50
32–37
51–60
38–43
61–69
44–49
70–79
50–54
80–87
55–60
88–96
61–66
97–106
67–71
107–114
113–118
182–190
119–123
191–198
RAIN
Light
Moderate
Heavy
Light shower
Moderate shower
Thunderstorm
Heavy T-storm
SNOW
Light
Moderate
Heavy
Light shower
Moderate shower
OTHER
Haze
Fog
DRIZZLE
Light
Moderate
Heavy
FREEZING RAIN
Light
Moderate
Ice crystals
Ice pellets (sleet)
0% Cloud cover—clear skies
10% Cloud cover—few clouds
25% Cloud cover—few clouds
40% Cloud cover—scattered clouds
50% Cloud cover—scattered clouds
60% Cloud cover—broken clouds
75% Cloud cover—broken clouds
90% Cloud cover—broken clouds
100% Cloud cover—overcast
Vision obscured
Missing data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15-19.

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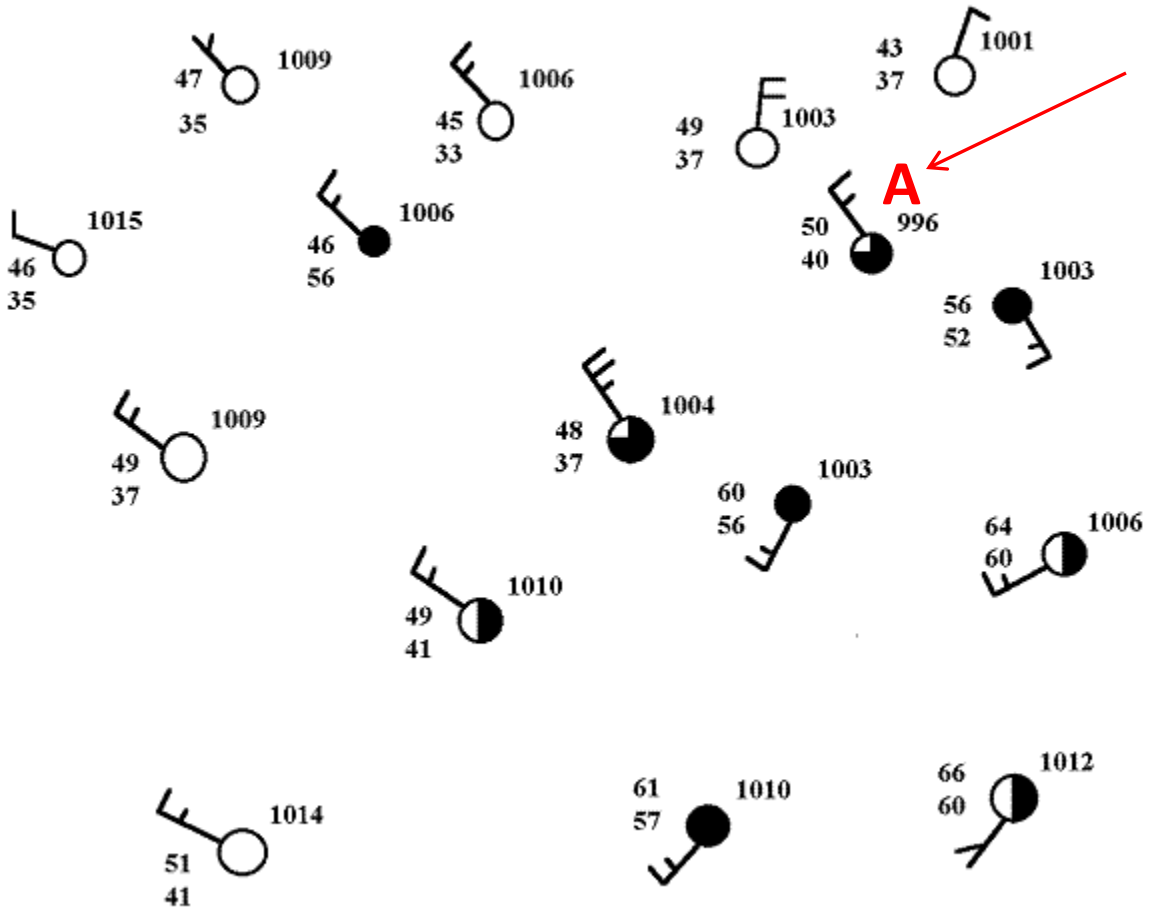
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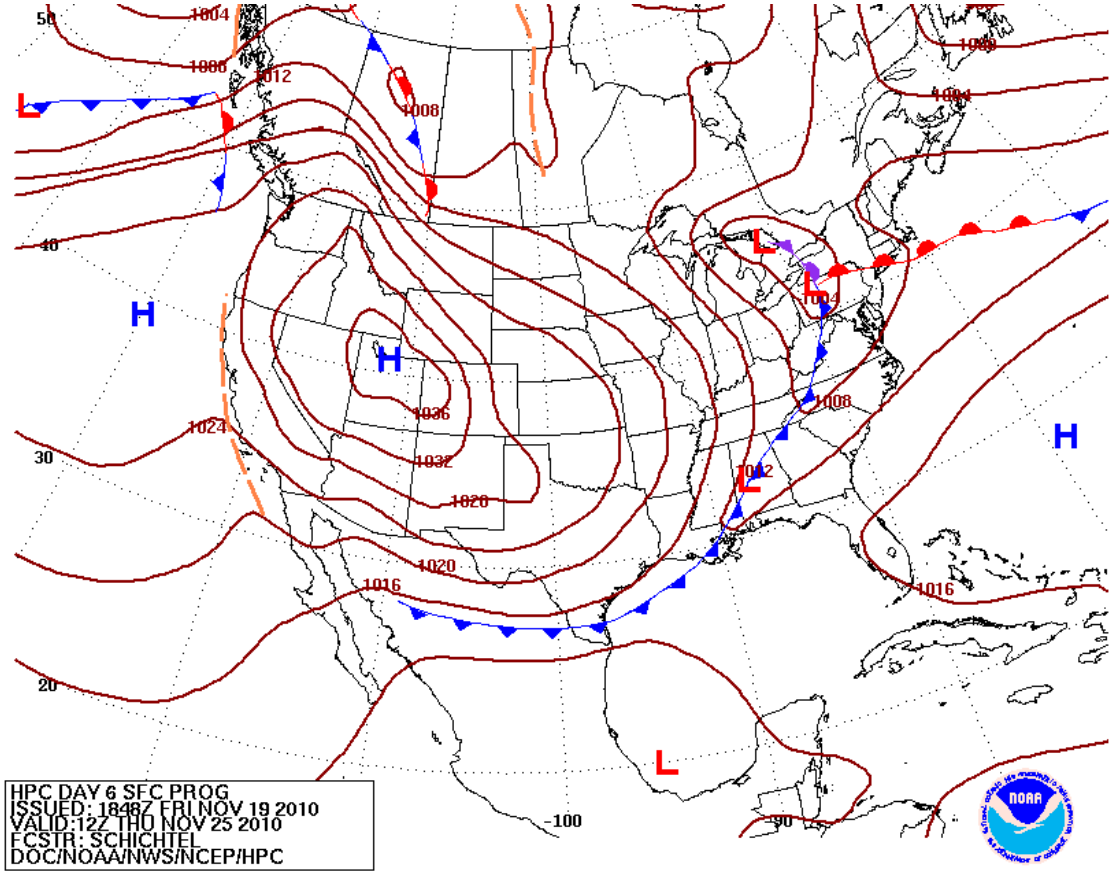
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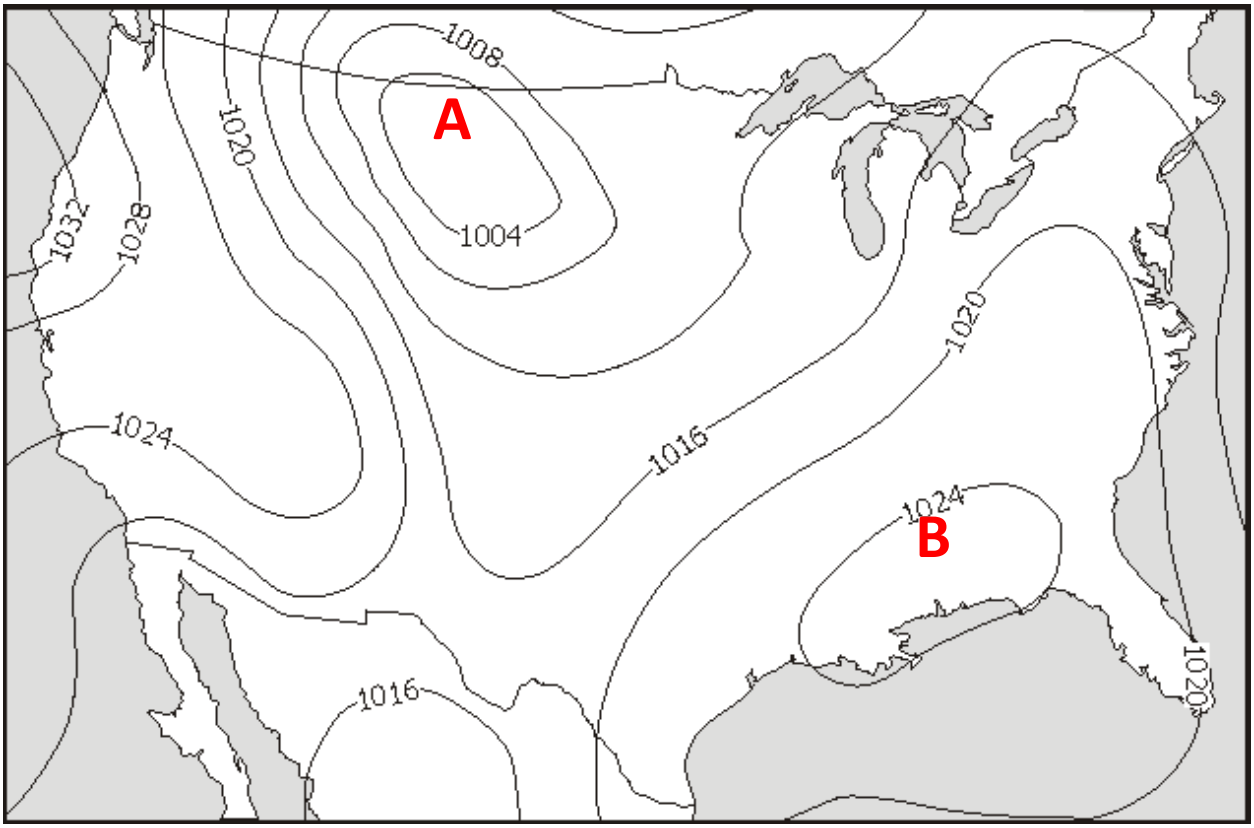
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